

**Table B-9. U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and age: 1999**

Level and field of highest degree, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>All degree levels<sup>1</sup></b>						
<b>All degree fields, total</b> .....	13,050,800	1,772,200	2,949,800	3,684,600	2,765,600	1,878,700
White .....	10,931,000	1,361,100	2,395,800	3,108,700	2,389,900	1,675,600
Black .....	677,500	109,400	150,600	197,700	134,900	84,800
Hispanic .....	476,100	109,200	136,300	128,700	64,400	37,600
Asian/Pacific Islander .....	919,900	183,200	257,100	237,000	167,800	74,800
Other .....	46,300	9,400	10,000	12,600	8,500	5,800
<b>S&amp;E degree fields, total</b> .....	9,614,400	1,611,400	2,241,600	2,538,400	1,856,600	1,366,400
White .....	7,970,600	1,236,300	1,797,400	2,118,900	1,590,900	1,227,100
Black .....	479,500	97,200	114,900	132,500	86,100	48,800
Hispanic .....	370,000	99,100	107,700	94,000	42,000	27,200
Asian/Pacific Islander .....	756,900	169,700	213,200	183,400	131,000	59,600
Other .....	37,400	9,100	8,400	9,600	6,700	3,700
<b>Sciences, total</b> .....	7,291,100	1,337,500	1,635,900	1,965,000	1,453,600	899,000
White .....	6,077,600	1,038,300	1,330,000	1,653,200	1,254,500	801,500
Black .....	420,600	85,300	95,900	116,100	78,900	44,500
Hispanic .....	285,500	85,000	78,300	69,900	34,200	18,100
Asian/Pacific Islander .....	475,400	120,700	125,000	117,800	80,000	31,900
Other .....	32,100	8,200	6,700	8,000	6,100	3,000
<b>Computer/math sciences, total</b> .....	1,185,600	147,300	367,900	332,900	229,700	107,700
White .....	945,100	106,900	276,100	266,600	198,900	96,600
Black .....	67,600	11,100	26,000	15,600	9,400	5,600
Hispanic .....	38,000	6,200	15,700	10,300	3,900	2,000
Asian/Pacific Islander .....	130,000	22,300	48,800	38,800	16,700	3,400
Other .....	4,800	800	1,400	1,700	800	100
<b>Life/related sciences, total</b> .....	1,582,900	329,900	323,300	457,000	292,700	180,000
White .....	1,318,400	254,400	263,900	389,900	254,000	156,100
Black .....	70,400	14,300	14,900	22,700	10,800	7,800
Hispanic .....	60,600	19,700	14,400	16,000	5,700	4,900
Asian/Pacific Islander .....	127,000	39,600	28,000	27,500	21,300	10,500
Other .....	6,600	1,900	2,100	900	1,000	800
<b>Physical/related sciences, total</b> .....	777,400	90,500	155,000	202,800	159,400	169,700
White .....	659,200	73,800	126,200	171,800	132,900	154,500
Black .....	26,700	4,200	5,900	5,400	6,500	4,800
Hispanic .....	21,900	3,700	5,700	6,100	3,400	3,000
Asian/Pacific Islander .....	66,800	8,500	16,800	18,400	15,800	7,200
Other .....	2,800	400	500	1,000	800	200
<b>Social/related sciences, total</b> .....	3,745,200	769,800	789,700	972,300	771,800	441,600
White .....	3,154,900	603,100	663,900	824,800	668,700	394,300
Black .....	255,800	55,700	49,100	72,400	52,200	26,300
Hispanic .....	165,000	55,500	42,600	37,500	21,200	8,200
Asian/Pacific Islander .....	151,600	50,300	31,300	33,100	26,100	10,700
Other .....	17,900	5,200	2,700	4,500	3,600	2,000

See explanatory information, if any, and SOURCE at end of table.

**Table B-9. U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and age: 1999**

Level and field of highest degree, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>All degree levels<sup>1</sup> — continued</b>						
<b>Engineering, total</b> .....	2,323,300	273,800	605,700	573,400	402,900	467,400
White .....	1,893,000	198,000	467,400	465,700	336,400	425,600
Black .....	58,900	12,000	19,000	16,500	7,100	4,400
Hispanic .....	84,600	14,100	29,400	24,100	7,800	9,200
Asian/Pacific Islander .....	281,500	49,000	88,200	65,600	51,000	27,700
Other .....	5,400	900	1,700	1,600	600	600
<b>Non-S&amp;E degree fields, total</b> .....	3,436,400	160,800	708,200	1,146,100	909,000	512,200
White .....	2,960,400	124,800	598,400	989,800	799,000	448,400
Black .....	198,000	12,200	35,800	65,100	48,900	36,000
Hispanic .....	106,100	10,000	28,500	34,700	22,400	10,400
Asian/Pacific Islander .....	163,000	13,500	43,800	53,600	36,800	15,300
Other .....	8,900	300	1,600	2,900	1,800	2,200
<b>Bachelor's</b>						
<b>All degree fields, total</b> .....	7,682,100	1,476,700	1,831,400	2,052,000	1,323,400	998,600
White .....	6,464,600	1,146,500	1,529,100	1,738,900	1,141,600	908,500
Black .....	412,400	91,700	103,600	116,500	64,500	36,200
Hispanic .....	310,100	93,700	88,500	77,500	32,800	17,500
Asian/Pacific Islander .....	464,000	136,500	103,700	110,700	79,200	33,800
Other .....	31,100	8,300	6,500	8,300	5,400	2,600
<b>S&amp;E degree fields, total</b> .....	7,131,300	1,465,700	1,699,400	1,833,600	1,196,500	936,100
White .....	5,986,400	1,136,900	1,412,600	1,553,200	1,029,800	853,800
Black .....	385,100	90,900	96,700	103,600	60,400	33,400
Hispanic .....	295,500	93,400	84,900	71,700	29,300	16,300
Asian/Pacific Islander .....	435,500	136,300	99,200	98,000	71,800	30,200
Other .....	28,800	8,300	6,000	7,000	5,300	2,300
<b>Sciences, total</b> .....	5,441,700	1,238,600	1,277,500	1,430,000	927,000	568,500
White .....	4,557,500	965,900	1,064,200	1,215,800	797,400	514,200
Black .....	337,700	80,300	82,300	90,300	55,100	29,700
Hispanic .....	231,700	81,000	63,600	53,700	23,900	9,500
Asian/Pacific Islander .....	290,200	103,900	62,700	64,500	45,800	13,200
Other .....	24,600	7,500	4,700	5,700	4,800	1,900
<b>Computer/math sciences, total</b> .....	845,300	124,700	283,900	229,700	142,600	64,400
White .....	692,600	94,900	223,800	190,200	124,300	59,400
Black .....	55,000	10,100	22,800	12,200	6,100	3,900
Hispanic .....	31,000	5,900	13,500	7,800	3,100	700
Asian/Pacific Islander .....	63,400	13,500	22,500	18,600	8,400	400
Other .....	3,200	300	1,200	1,000	700	S
<b>Life/related sciences, total</b> .....	1,177,300	312,200	239,100	333,300	178,900	113,800
White .....	988,500	242,000	200,900	287,100	157,200	101,200
Black .....	56,900	13,700	12,600	18,500	6,500	5,600
Hispanic .....	48,700	19,000	11,300	12,600	3,500	2,300
Asian/Pacific Islander .....	78,200	35,700	12,900	14,700	10,900	4,100
Other .....	5,000	1,800	1,400	500	800	600

See explanatory information, if any, and SOURCE at end of table.

**Table B-9. U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and age: 1999**

Level and field of highest degree, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>Bachelor's — continued</b>						
<b>Physical/related sciences, total</b> .....	486,200	79,100	98,100	124,000	82,000	103,000
White .....	419,700	64,600	84,500	108,100	67,500	95,000
Black .....	20,700	3,900	4,800	4,000	4,700	3,300
Hispanic .....	14,900	3,300	4,000	3,800	2,000	1,900
Asian/Pacific Islander .....	28,900	6,900	4,500	7,300	7,400	2,800
Other .....	2,000	300	300	800	500	100
<b>Social/related sciences, total</b> .....	2,932,900	722,700	656,400	743,000	523,500	287,300
White .....	2,456,700	564,500	554,900	630,400	448,300	258,600
Black .....	205,000	52,500	42,100	55,600	37,800	16,900
Hispanic .....	137,100	52,800	34,800	29,500	15,400	4,600
Asian/Pacific Islander .....	119,700	47,800	22,700	24,000	19,200	6,000
Other .....	14,400	5,100	1,800	3,500	2,800	1,200
<b>Engineering, total</b> .....	1,689,600	227,100	421,800	403,600	269,500	367,600
White .....	1,428,800	171,000	348,400	337,500	232,400	339,600
Black .....	47,400	10,700	14,400	13,300	5,400	3,700
Hispanic .....	63,800	12,400	21,300	18,000	5,300	6,900
Asian/Pacific Islander .....	145,300	32,400	36,500	33,500	25,900	17,000
Other .....	4,300	700	1,300	1,400	500	400
<b>Non-S&amp;E degree fields, total</b> .....	550,800	11,000	132,000	218,300	126,900	62,500
White .....	478,200	9,600	116,500	185,700	111,800	54,600
Black .....	27,400	800	6,900	12,900	4,000	2,700
Hispanic .....	14,500	400	3,700	5,800	3,500	1,100
Asian/Pacific Islander .....	28,500	200	4,500	12,700	7,400	3,600
Other .....	2,200	S	400	1,200	100	400
<b>Master's</b>						
<b>All degree fields, total</b> .....	3,535,900	222,800	743,500	1,044,200	957,900	567,400
White .....	2,923,000	159,700	575,900	868,100	824,100	495,200
Black .....	192,500	12,500	34,100	61,800	50,100	34,000
Hispanic .....	110,200	10,700	31,400	34,500	21,500	12,000
Asian/Pacific Islander .....	300,400	38,900	99,700	77,000	60,700	24,100
Other .....	9,800	1,000	2,300	2,800	1,600	2,100
<b>S&amp;E degree fields, total</b> .....	1,775,600	134,700	398,100	500,100	455,200	287,600
White .....	1,417,600	90,900	285,400	405,000	385,900	250,400
Black .....	79,000	6,100	14,800	23,700	21,000	13,300
Hispanic .....	55,000	5,500	17,900	16,400	8,500	6,600
Asian/Pacific Islander .....	218,000	31,400	78,000	53,200	39,200	16,300
Other .....	6,000	800	1,900	1,800	500	1,000
<b>Sciences, total</b> .....	1,259,900	90,500	246,700	360,600	350,700	211,400
White .....	1,032,700	65,200	184,900	295,300	303,100	184,200
Black .....	69,400	4,900	10,900	21,100	19,700	12,800
Hispanic .....	37,400	4,000	10,700	11,100	6,600	5,000
Asian/Pacific Islander .....	115,200	15,800	38,700	31,500	20,700	8,600
Other .....	5,100	700	1,500	1,600	500	800

See explanatory information, if any, and SOURCE at end of table.

**Table B-9. U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and age: 1999**

Level and field of highest degree, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>Master's — continued</b>						
<b>Computer/math sciences, total</b> .....	295,600	21,000	74,200	89,900	74,000	36,500
White .....	218,000	10,800	45,800	66,400	63,400	31,500
Black .....	11,900	900	3,100	3,200	3,200	1,600
Hispanic .....	5,800	300	1,900	2,100	500	1,000
Asian/Pacific Islander .....	58,500	8,500	23,200	17,800	6,900	2,200
Other .....	1,300	500	200	500	100	100
<b>Life/related sciences, total</b> .....	203,100	15,000	41,900	59,800	57,600	28,700
White .....	168,900	10,200	33,400	52,100	48,900	24,400
Black .....	8,700	500	1,500	2,500	2,600	1,600
Hispanic .....	5,100	600	1,500	1,300	1,000	600
Asian/Pacific Islander .....	19,500	3,600	5,000	3,700	5,100	2,100
Other .....	900	100	600	200	S	100
<b>Physical/related sciences, total</b> .....	143,100	9,200	26,700	40,100	36,500	30,600
White .....	119,400	7,200	20,800	33,100	30,700	27,600
Black .....	4,400	200	500	1,000	1,400	1,300
Hispanic .....	4,100	400	800	1,600	700	600
Asian/Pacific Islander .....	14,700	1,300	4,400	4,300	3,600	1,100
Other .....	500	S	100	200	100	100
<b>Social/related sciences, total</b> .....	618,100	45,300	103,900	170,800	182,600	115,500
White .....	526,400	37,000	84,900	143,700	160,100	100,700
Black .....	44,300	3,200	5,800	14,400	12,500	8,300
Hispanic .....	22,400	2,600	6,500	6,100	4,400	2,800
Asian/Pacific Islander .....	22,600	2,400	6,100	5,800	5,200	3,100
Other .....	2,400	100	600	700	400	500
<b>Engineering, total</b> .....	515,700	44,200	151,300	139,500	104,500	76,200
White .....	384,900	25,700	100,500	109,700	82,800	66,200
Black .....	9,600	1,300	3,900	2,600	1,300	500
Hispanic .....	17,600	1,500	7,200	5,300	1,900	1,600
Asian/Pacific Islander .....	102,700	15,600	39,300	21,600	18,500	7,700
Other .....	900	100	400	200	S	200
<b>Non-S&amp;E degree fields, total</b> .....	1,760,300	88,200	345,400	544,200	502,700	279,800
White .....	1,505,300	68,800	290,500	463,100	438,100	244,800
Black .....	113,500	6,300	19,300	38,100	29,100	20,600
Hispanic .....	55,200	5,200	13,500	18,100	13,000	5,400
Asian/Pacific Islander .....	82,500	7,600	21,700	23,800	21,500	7,900
Other .....	3,800	200	300	1,100	1,100	1,100
<b>Doctorate</b>						
<b>All degree fields, total</b> .....	839,000	11,100	159,200	230,000	252,800	186,000
White .....	671,300	8,100	109,600	180,000	214,000	159,500
Black .....	29,100	500	3,400	7,700	10,400	7,200
Hispanic .....	23,500	500	6,000	6,500	5,700	4,800
Asian/Pacific Islander .....	112,000	2,000	39,700	34,800	21,700	13,800
Other .....	3,200	S	500	1,000	900	800

See explanatory information, if any, and SOURCE at end of table.

**Table B-9. U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and age: 1999**

Level and field of highest degree, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>Doctorate — continued</b>						
<b>S&amp;E degree fields, total</b> .....	698,500	10,400	143,000	201,700	201,400	141,800
White .....	557,700	8,000	98,300	157,800	171,700	121,900
Black .....	15,400	100	3,300	5,200	4,700	2,100
Hispanic .....	19,400	300	4,900	5,800	4,200	4,300
Asian/Pacific Islander .....	103,400	2,000	36,100	32,200	20,000	13,100
Other .....	2,500	S	500	800	800	400
<b>Sciences, total</b> .....	580,400	7,900	110,500	171,400	172,500	118,100
White .....	478,400	6,600	79,800	139,300	150,600	102,100
Black .....	13,600	100	2,700	4,700	4,100	1,900
Hispanic .....	16,300	100	3,900	5,100	3,600	3,600
Asian/Pacific Islander .....	69,800	1,100	23,700	21,700	13,400	10,100
Other .....	2,300	S	400	700	800	400
<b>Computer/math sciences, total</b> .....	44,500	1,600	9,900	13,100	13,100	6,800
White .....	34,300	1,200	6,400	9,900	11,100	5,700
Black .....	700	100	100	200	200	100
Hispanic .....	1,200	S	200	400	300	200
Asian/Pacific Islander .....	8,100	300	3,100	2,400	1,400	800
Other .....	300	S	S	200	S	S
<b>Life/related sciences, total</b> .....	202,000	2,700	42,000	63,600	56,200	37,500
White .....	160,600	2,300	29,400	50,500	47,900	30,500
Black .....	4,700	S	900	1,700	1,600	500
Hispanic .....	6,800	S	1,500	2,100	1,200	2,000
Asian/Pacific Islander .....	29,200	300	10,100	9,100	5,300	4,400
Other .....	700	S	200	200	200	100
<b>Physical/related sciences, total</b> .....	147,000	2,300	29,700	38,600	40,300	36,000
White .....	119,000	2,000	20,300	30,600	34,100	32,000
Black .....	1,600	S	500	500	400	200
Hispanic .....	2,800	S	900	600	700	600
Asian/Pacific Islander .....	23,200	300	7,900	6,800	4,900	3,300
Other .....	400	S	100	S	200	100
<b>Social/related sciences, total</b> .....	186,800	1,200	28,900	56,000	62,900	37,800
White .....	164,600	1,100	23,700	48,300	57,400	34,000
Black .....	6,500	S	1,200	2,300	1,900	1,100
Hispanic .....	5,400	S	1,300	1,900	1,400	800
Asian/Pacific Islander .....	9,300	100	2,500	3,300	1,800	1,600
Other .....	1,000	S	200	200	400	200
<b>Engineering, total</b> .....	118,100	2,600	32,600	30,300	28,900	23,700
White .....	79,300	1,400	18,500	18,500	21,200	19,800
Black .....	1,900	S	700	500	500	100
Hispanic .....	3,100	200	900	700	600	700
Asian/Pacific Islander .....	33,600	1,000	12,400	10,500	6,600	3,000
Other .....	200	S	100	100	100	S

See explanatory information, if any, and SOURCE at end of table.

**Table B-9. U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and age: 1999**

Level and field of highest degree, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>Doctorate — continued</b>						
<b>Non-S&amp;E degree fields, total</b> .....	140,600	600	16,200	28,200	51,300	44,200
White .....	113,600	100	11,300	22,200	42,300	37,600
Black .....	13,700	400	S	2,500	5,700	5,100
Hispanic .....	4,100	200	1,100	700	1,500	500
Asian/Pacific Islander .....	8,600	S	3,600	2,600	1,700	700
Other .....	600	S	S	200	100	300

<sup>1</sup> Total includes professional degrees not broken out separately.

**NOTES:** The term "Scientists and Engineers" (S&Es) includes all persons who have ever received a bachelor's degree or higher in a science or engineering (S&E) field, plus persons holding a non-S&E bachelor's or higher degree who were employed in a S&E occupation during either the 1993, 1995, 1997, or 1999 SESTAT surveys. Figures are rounded to nearest hundred. Details may not add to total because of rounding.

**KEY:** S = Suppressed for reasons of confidentiality and/or data reliability

**SOURCE:** National Science Foundation/Science Resources Statistics Division, 1999 SESTAT (Scientists and Engineers Statistical Data System)